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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/015,631	12/10/2001	Jesse J. Kuhns	END-786	1232
27777	7590 04/20/2006		EXAMINER	
PHILIP S. JOHNSON JOHNSON & JOHNSON ONE JOHNSON & JOHNSON PLAZA			NGUYEN, TUAN VAN	
			ART UNIT	PAPER NUMBER
NEW BRUNS	WICK, NJ 08933-7003		3731	
			DATE MAILED: 04/20/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
· · · · · · · · · · · · · · · · · · ·		10/015,631	KUHNS ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Tuan V. Nguyen	3731				
Period fo	The MAILING DATE of this communication a	ppears on the cover sheet	with the correspondence ad	dress			
A SHO WHIC - Exter after - If NO - Failur Any r	DRTENED STATUTORY PERIOD FOR REF HEVER IS LONGER, FROM THE MAILING Isions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory perion to treply within the set or extended period for reply will, by state pely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUI 1.136(a). In no event, however, may od will apply and will expire SIX (6) No ute, cause the application to become	NICATION. If a reply be timely filed IONTHS from the mailing date of this coef ABANDONED (35 U.S.C. § 133).				
Status		•					
1)⊠	Responsive to communication(s) filed on <u>01</u>	February 2006					
		nis action is non-final.					
, —	Since this application is in condition for allow		atters, prosecution as to the	merits is			
٥,۵	closed in accordance with the practice under						
Dispositi	on of Claims	,					
·	Claim(s) <u>1-7,9-15 and 17</u> is/are pending in the	ne application.					
•	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
•	Claim(s) <u>1-7, 9-15, and 17</u> is/are rejected.	•	•				
•	Claim(s) is/are objected to.						
· ·	Claim(s) are subject to restriction and	l/or election requirement.					
Applicati	on Papers			·			
	The specification is objected to by the Exami	ner		•			
,	The drawing(s) filed on is/are: a) ☐ a		to by the Examiner.				
10)	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the corre			R 1.121(d).			
11)	The oath or declaration is objected to by the						
	inder 35 U.S.C. § 119						
12) 🗌 .	Acknowledgment is made of a claim for forei ☐ All b) ☐ Some * c) ☐ None of:	gn priority under 35 U.S.C	C. § 119(a)-(d) or (f),				
/.	1. Certified copies of the priority docume	ents have been received.		٠.			
	2. Certified copies of the priority docume		Application No	·			
	3. Copies of the certified copies of the prapplication from the International Bure	riority documents have be		Stage			
* 5	see the attached detailed Office action for a li	ist of the certified copies r	ot received.				
Attachmen	t(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0	Paper I 08) 5) Notice	w Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTC)-152)			
Pape	r No(s)/Mail Date	6) Other:	······································	·			

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DETAILED ACTION

Claims 1-17 were examined and rejected in Office Action mailed out on October 5,
 2005. According to the Response Non-Final Rejection applicant filed on February
 2006. Applicant amended claims 1, 9 and 10-17 to overcome the rejections
 therefore objections to claims 1, 9 and 10-17 are withdrawn.

- Applicant filed Terminal Disclaimer and it was approved by the USPTO therefore double patenting rejection is withdrawn.
- 3. Applicant cancelled claims 8 and 16. Now claims 1-7, 9-15, and 17 are pending in this application.

Response to Amendment

4. Applicant's arguments filed on February 01, 2006 with respect to claims 1-7, 9-15, and 17 have been fully considered but they are moot in view of the new grounds of rejection.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the

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international application designated the United States and was published under Article 21(2) of such treaty in the English language.

- 6. Claims 1, 5-7, 9, 13-15, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by or, in alternative, under 35 U.S.C. 103 (a) as obvious by Miller et al (U.S. 6,709,442).
- Referring to claims 1 and 9, Miller discloses a surgical fastener system (see Figs. 7. 34-38) for delivering a plurality of surgical fasteners comprising: a drive mechanism having distal and proximal ends, drive mechanism comprising a needle assembly 230 or moving member wherein the needle assembly includes needle head 232 and suture element 236 or fastener, and push element 238; and a sleeves 218, 224, and flange 226 or fixed opposing member includes flange 228 and 220, an actuator 210 includes stop detent 244, lever 256. The actuator having at least two sequential positions, first position for moving needle assembly 230 distally and piercing tissue, and a second position for moving needle assembly 230 proximally, thereby deploying said distal end of said fastener; and a mechanism includes slot 248a, 248b for receiving detent or protrusion 254 on needle assembly 230 which prevents actuator from moving to said second position, after initially moving to first position, until actuator has fully moved to its first position, and from moving to said first position, after initially moving to said second position, until said actuator has fully moved to its second position (see col. 12, line 50 to col. 13, line 20).

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8. Referring to claims 5 and 13, Miller discloses the surgical fastener can be made from any material so long as it is adequately elastic (see col. 6, lines 1-5). Here it is noted that surgical fastener formed from stainless steel is well known in the art.

- 9. Referring to claims 6, 7, 14, and 15, Miller discloses the fastener is made from super-elastic alloy of nickel titanium (see col. 5, lines 53-68).
- 10. Referring to claim 17, it is rejected for the same reason as claim 9.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 13. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miller et al (U.S. 6,709,442) further in view of Wenstrom (U.S. 6,007,566).

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- 14. Referring to claims 3, Miller discloses the inventions substantially as claimed except for the fasteners includes at least one barb extending axially away from said distal end, and one barb extending axially away from said second end.
 Wenstrom discloses a fastener (see Figs. 1 and 2) includes at least one barb 32 extending axially away from said distal end, and one barb extending axially away from said second end 40.
- 15. Still referring to claim 3, it would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to use the fastener, as disclosed by Wenstrom, to incorporate into the device, as disclosed by Miller because this will provide more anchoring force per fastener.
- 16. Claims 2, 4, 8, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller et al (U.S. 6,709,442) further in view of Wenstrom (U.S. 6,007,566) and further in view of McGarry et al (U.S. 4,509,518).
- 17. Referring to claim 2, Miller discloses the inventions substantially as claimed except for the moving and fixed members have inner surfaces having a plurality projections spaced thereon, said projections engaging said fasteners; the barb engage inner surfaces of moving and fixed member. McGarry et al disclose a apparatus for applying surgical clips to tissue (see Figs. 2 and 12-14) includes a moving member 92 and fixed member 94 have inner surfaces having a plurality projections 102 and 104, respectively, spaced thereon, and projections engaging fasteners 36. Wenstrom discloses a tissue fastener substantially as claimed.

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- 18. Still referring to claim 2, it would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to use the fastener delivery device, as disclosed by McGarry et al, to incorporate into the device, as disclosed by Wenstrom, then to incorporate into the device, as disclosed by Miller because this will provide surgeon the ability to apply more anchoring devices to target site without reloading the applicator.
- 19. Claims 4, 8, and 16 are rejected for the same reason as claim 2.
- 20. Claims 1, 5-7, 9, 13-15, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by or, in alternative, under 35 U.S.C. 103 (a) as obvious by Miller (U.S. 6,837,893).
- 21. Referring to claims 1 and 9, Miller discloses a surgical fastener system (see Figs. 5A-5C) of individual surgical fasteners comprising: a drive mechanism having distal and proximal ends, drive mechanism comprising a needle 54 or moving member and a sleeve 51 or fixed opposing member, moving member having a sharpened distal end for piercing tissue; at least one surgical fastener 10, each of one surgical fasteners having a proximal end and a distal end; an actuator (head 60 and plunger 52) having at least two sequential positions, first position (see Fig. 5B) for moving said moving member distally and piercing tissue, and a second position (see Fig. 5C) for moving said moving member proximally, thereby deploying said distal end of said fastener; and a mechanism (stops 62 and 64) which prevents actuator from moving to said second position, after initially moving

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to first position, until actuator has fully moved to its first position, and from moving to said first position, after initially moving to said second position, until said actuator has fully moved to its second position (see Figs. 5B and 5C). Miller also discloses an alternative embodiment (see Figs. 10-12A) a surgical fastener system for delivery of multiple fasteners comprising a fixed member includes handle 235, body 220, and cartridge 215; moving member 230 and 210; a plurality of elastically constrained surgical fasteners located between fixed and moving members, wherein the fasteners are not engaging one another and are spaced apart from one another (see col. 12, lines 14-56). It would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to combined the design of Figs 5A-5F with the design of Figs 10-12A into one because this will provide a delivery device having capability of delivering a plurality of surgical fasteners and having a mechanism which prevents the actuator from premature delivered the fastener before the penetration of tissue is completed.

- 22. Referring to claims 5 and 13, Miller discloses the surgical fastener can be made from any material so long as it is adequately elastic (see col. 7, lines 25-29). Here it is noted that surgical fastener formed from stainless steel is well known in the art.
- 23. Referring to claims 6, 7, 14, and 15, Miller discloses the fastener is made from super-elastic alloy of nickel titanium (see col. 7, lines 10-20).
- 24. Referring to claim 17, it is rejected for the same reason as claim 9.

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- Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Miller (U.S. 6,837,893) further in view of Wenstrom (U.S. 6,007,566).
- 26. Referring to claims 3, Miller discloses the inventions substantially as claimed except for the fasteners includes at least one barb extending axially away from said distal end, and one barb extending axially away from said second end.

 Wenstrom discloses a fastener (see Figs. 1 and 2) includes at least one barb 32 extending axially away from said distal end, and one barb extending axially away from said second end 40.
- 27. Still referring to claim 3, it would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to use the fastener, as disclosed by Wenstrom, to incorporate into the device, as disclosed by Miller because this will provide more anchoring force per fastener.
- 28. Claims 2, 4, 8, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miller (U.S. 6,837,893) further in view of Wenstrom (U.S. 6,007,566) and further in view of McGarry et al (U.S. 4,509,518).
- 29. Referring to claim 2, Miller discloses the inventions substantially as claimed except for the moving and fixed members have inner surfaces having a plurality projections spaced thereon, said projections engaging said fasteners; the barb engage inner surfaces of moving and fixed member. McGarry et al disclose a apparatus for applying surgical clips to tissue (see Figs. 2 and 12-14) includes a moving member 92 and fixed member 94 have inner surfaces having a plurality

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projections 102 and 104, respectively, spaced thereon, and projections engaging fasteners 36. Wenstrom discloses a tissue fastener substantially as claimed.

- 30. Still referring to claim 2, it would have been obvious to one of ordinary skill in the art at the time the invention was made by the applicant to use the fastener delivery device, as disclosed by McGarry et al, to incorporate into the device, as disclosed by Wenstrom, then to incorporate into the device, as disclosed by Miller because this will provide surgeon the ability to apply more anchoring devices to target site without reloading the applicator.
- 31. Claims 4, 8, and 16 are rejected for the same reason as claim 2.

Conclusion .

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan V. Nguyen whose telephone number is 571-272-5962. The examiner can normally be reached on M-F: 9:00 AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, AnhTuan Nguyen can be reached on 571-272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tuan V. Nguyen

April 10, 2006